Clarion®

Owner's manual & Installation manual
Mode d'emploi et manuel d'installation
Benutzerhandbuch & Installationshandbuch
Manuale dell'utente e manuale di installazione
Gebruikershandleiding en installatiehandleiding
Manual de instrucciones y de instalación
Ägar- & installationshandbok
Instrukcja obsługi i instalacji
Εγχειρίδιο Λειτουργίας & Εγκατάστασης

FZ501E

Bluetooth® /USB/MP3/WMA RECEIVER
RÉCEPTEUR /USB/MP3/WMA Bluetooth®
Bluetooth® /USB/MP3/WMA-RECEIVER
RICEVITORE /USB/MP3/WMA Bluetooth®
Bluetooth® /USB/MP3/WMA-ONTVANGER
RECEPTOR Bluetooth® /USB/MP3/WMA
Bluetooth® /USB/MP3/WMA-RECEIVER
ODBIORNIK /USB/MP3/WMA
z interfejsem Bluetooth®
Bluetooth® /USB/MP3/WMA ΔΕΚΤΗΣ

English

Contents

Thank you for purchasing this **Clarion** product.
• Please fully read this owner's manual before operating this equipment.
• Check the contents of the enclosed warranty card and store it in a safe place with this manual.

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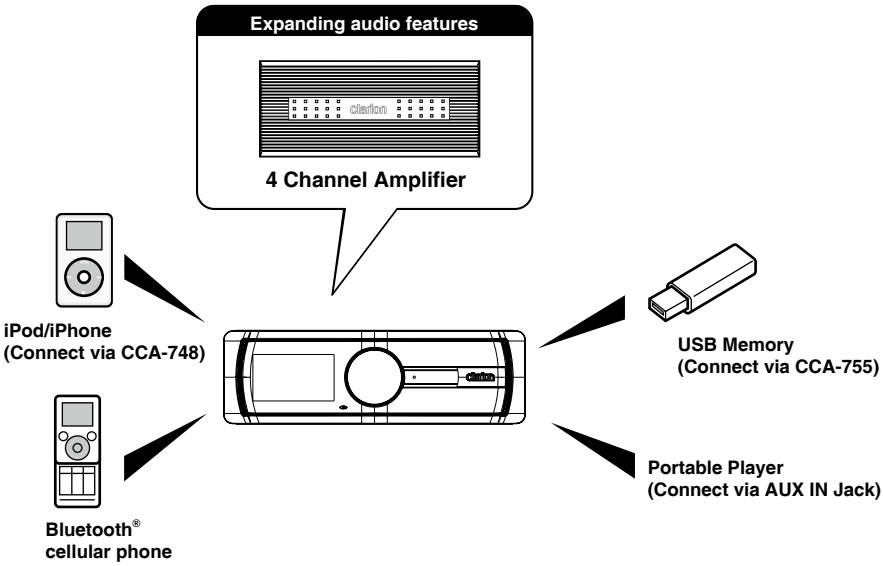
1. FEATURES

- **Built-in Bluetooth® Hands free(HFP) and Audio Streaming(A2DP & AVRCP)**
- **Compatible with iPod® / iPhone® via USB**
- **4ch RCA Output with HPF/LPF and BEAT-EQ with 3 Band Parametric Equalizer**

RDS Bluetooth USB MP3/WMA Made for iPod iPhone

Expanding Systems



Note:

• The items listed outside of the frames are the commercial products generally sold.

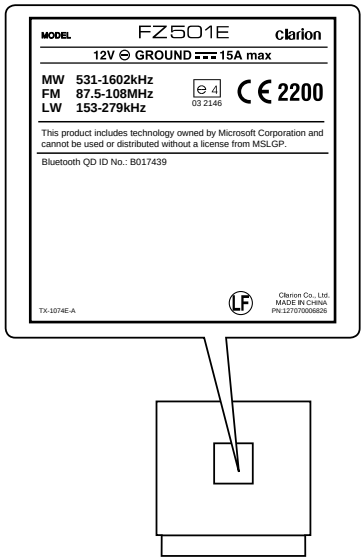
• CCA-748 and CCA-755: Sold by separately.

2. PRECAUTIONS

⚠ WARNING

For your safety, the driver should not operate the controls while driving.
Also, while driving, keep the volume to a level at which external sounds can be heard.

1. If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.
2. Do not open the case, disassemble the unit, or lubricate the rotating parts.
3. “Made for iPod,” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.
   Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.
   iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.



Front Panel / Generalities

For a longer service life, be sure to read the following cautions.

- Do not allow any liquids on the set from drinks, umbrellas, etc. Doing so may damage the internal circuitry.
- Do not disassemble or modify the set in any way. Doing so may result in damage.
- Do not let cigarettes burn the display. Doing so may damage or deform the body.
- If a problem should occur, have the set inspected at your store of purchase.

Cleaning the body

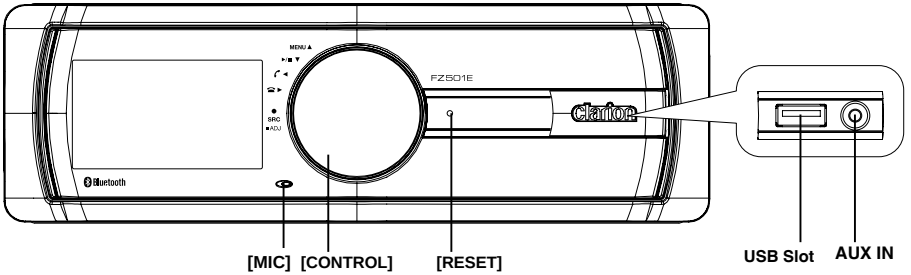
- Use a soft, dry cloth and gently wipe off the dirt.
- For tough dirt, apply some neutral detergent diluted in water to a soft cloth, wipe off the dirt gently, then wipe again with a dry cloth.
- Do not use benzene, thinner, car cleaner, etc., as these substances may damage the body or cause the paint to peel. Also, leaving rubber or plastic products in contact with the body for long periods of time may cause stains.

USB Port

- The USB memory stick may stick out when inserted,so it may cause danger during driving. When connect USB memory stick to the main unit, please use a USB extension cable (CCA-755).
- The USB memory sticks must be recognized as “USB mass storage class“ to work properly. Some models may not operate correctly.
  When the memorized data is lost or damaged by any chance, Clarion shall not be liable for any damage.
  When using an USB memory stick, we recommend that you backup your data stored on it before using a personal computer etc.
- Data files may be broken when using USB memory sticks in the following situation:
  When disconnecting the USB memory stick or turning the power off during reading data.
  When affected static electricity or electric noise.
  Connect/disconnect the USB memory stick when it is not accessed.
- Connecting with the computer is not covered.

3. CONTROLS

Operational Panel



Names of Button

[CONTROL] Knob

- Power on (press)
- Power off (long press -> rotate it select "**POWER OFF**" ->press)
- Adjust volume level (rotate)
- Toggle the audio source (press)
- Previous/Next search (press - left/right)
- Select tuner band (press - up)(1sec.)

- **BT** mode – Terminate call
- **RADIO** mode – PTY select.
- **AUX** mode – No function.
- **USB** mode – Search function
- **iPod** mode – iPod menu

[MIC] Hole

- Internal microphone

Remote Control (RCX004)

[SRC] Button
- Toggle the audio source

[⏮ , ⏭] Buttons
- Preset station up / down
- Previous / next track
- Search (long press)

[SCN/PS/AS] Button
- Scan play / Preset scan
- Auto memory store (long press)

[BAND/TOP] Button
- Select tuner band
- Top play (long press)

[▲ , ▼] Buttons
- Volume up / down

[▶/❚❚] Button
- Play / Pause

[TA] Button
- Traffic announcement

[DISP] Button
- Display switch

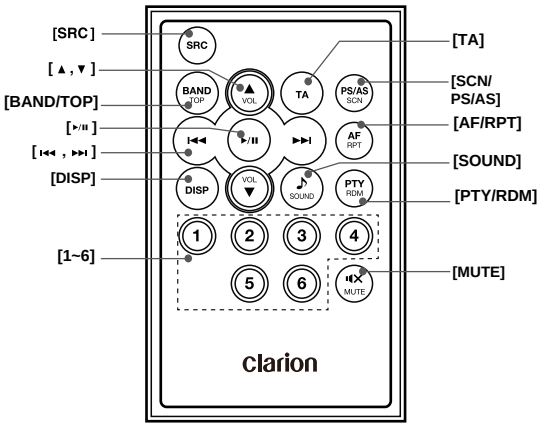
[PTY/RDM] Button
- Programme type
- Random play

[AF/RPT] Button
- Alternative frequency
- Repeat play

[MUTE] Button
- Mute the volume

[1~6] Buttons
- **[1]** Button: Preset station 1.
- **[2]** Button: Preset station 2.
- **[3]** Button: Preset station 3.
- **[4]** Button: Preset station 4.
- **[5]** Button: Preset station 5.
- **[6]** Button: Preset station 6.

[SOUND] Button
- Sound effect setting



Notes of remote control using

Replacing the lithium battery of remote control unit.

When the range of the operation of the card remote control becomes short or no functions while operating. Replace the battery with a new lithium battery. Make sure the battery polarity replacement is correct.

1. Pull out the battery holder while pressing the stopper.
2. Insert the button-type battery with the stamped(+) mark facing upward.
   Insert the battery holder into the remote control.

4. OPERATIONS

Basic Operations

Note:
- Refer to the diagrams in “3. CONTROLS” when reading this chapter.

⚠ CAUTION

When the unit is turned on, starting and stopping the engine with its volume raised to the maximum level may harm your hearings.
Be careful about adjusting the volume.

Power on / off

Notes:
- Start the engine before using this unit.
- Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.

1. Start the engine. The power button / knob illumination on the unit will light up.

Engine ON position

2. Press the **[CONTROL]** knob on the front panel to turn on the power under standby mode. The unit goes back to the last status after power on.
3. Press and hold the **[CONTROL]** knob (center long press) on the front panel, and rotate the **[CONTROL]** knob choose POWER OFF, then press the **[CONTROL]** knob on the front panel to turn off the power.

Mute

Press the **[MUTE]** button on the remote control to mute the volume from the unit.

Note:
Doing the operation above again or adjusting volume will release muting.

CT (Clock Time) display

- The displayed clock data is based on the CT (clock time) data in the RDS signal.

Volume adjustment

Turn the **[CONTROL]** knob on the front panel.
The adjustable range of volume is 0 to 40.

⚠ CAUTION

While driving, keep the volume level at which external sounds can be heard.

Playing source selection

Press **[CONTROL]** knob on the front panel repeatedly to choose desired playing source.

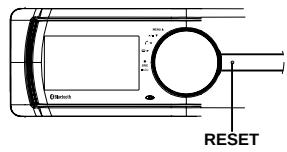
Notes:
- Playing source selection means selecting work mode, such as **RADIO** mode and **AUX** mode, etc.

Display system time

Press the **[DISP]** button on the remote control to switch the display information, system time and playing source.

RESET

Note:
* When the **[RESET]** button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.



System Setup

At all mode, press and hold **[CONTROL]** knob (center long press), and rotate the **[CONTROL]** knob choose **ADJUST**, then press the **[CONTROL]** knob to enter system setup. Press **[CONTROL]** knob (left / right) to select options, rotate the **[CONTROL]** knob to adjust.

AF: ON/OFF (RADIO mode)
Rotate the **[CONTROL]** knob to choose AF ON or OFF.
- **ON:**
  "AF" indicator appears in the display lights and AF function turns on.
- **OFF:**
  "AF" indicator disappears in the display and AF function turns off.

REG: ON/OFF (RADIO mode AF on)
Rotate the **[CONTROL]** knob to choose REG ON or OFF.
- **ON:**
  "REG" indicator appears in the display lights and Regional function turns on.
- **OFF:**
  "REG" indicator disappears in the display and Regional function turns off.

TA: ON/OFF
Rotate the **[CONTROL]** knob to choose TA ON or OFF.
- **ON:**
  "**TA**" indicator appears in the display lights and TA function turns on.
- **OFF:**
  "**TA**" indicator disappears in the display and TA function turns off.

PTY (Programme Type) MODE (RADIO mode)
Press **[CONTROL]** knob, then rotate the **[CONTROL]** knob to select PTY type, press the **[CONTROL]** knob, the unit begin searching.
PTY type: NEWS -> AFFAIRS -> INFO -> SPORT -> EDUCATE -> DRAMA -> CULTURE -> SCIENCE -> VARIED -> POP M -> ROCK M -> EASY M -> LIGHT M -> CLASSICS -> OTHER M -> WEATHER -> FINANCE -> CHILDREN ->SOCIAL -> RELIGION -> PHONE IN -> TRAVEL -> LEISURE -> JAZZ ->COUNTRY -> NATION M -> OLDIES -> FOLK M -> DOCUMENT -> TEST ->ALARM

DX/LO (RADIO mode)
Rotate the **[CONTROL]** knob to choose radio local or distant at **RADIO** mode.
- **LO**: Only stations with strong signal can be received.
- **DX**: Stations with strong and weak signals can be received.

PCH MEMO (RADIO mode)
Rotate the **[CONTROL]** knob to choose PCH 1 / PCH 2 / PCH 3 / PCH 4 / PCH 5 or PCH 6, press and hold **[CONTROL]** knob (center long press) to store it in the memory.

AUX SENS (AUX mode)
Rotate the **[CONTROL]** knob to choose AUX input sensitivity LOW, MID or HIGH at **AUX** mode.

AUTO CON (BT mode): ON/OFF
Rotate the **[CONTROL]** knob to choose AUTO CON ON or OFF.

PIN CODE
Press the **[CONTROL]** knob, rotate the **[CONTROL]** knob to select a digit, press the **[CONTROL]** knob (left / right) to move the cursor. Press the **[CONTROL]** knob to confirm.
The PIN CODE default setting is " **0000** ".

MIC SEL (BT mode)
Rotate the **[CONTROL]** knob to choose microphone EXTERNAL or INTERNAL.

MIC GAIN (BT mode)
Rotate the **[CONTROL]** knob to choose Mic gain: 1, 2, 3, 4, 5.
You can change the gain of MIC when a telephone partner cannot hear your voice.

SCRN SVR: ON/OFF
Rotate the **[CONTROL]** knob to choose SCRN SVR (screen saver) ON or OFF.

SCROLL: ON/OFF
For track information that is longer than the display panel:
When SCROLL is ON, the LCD will display ID3 TAG information cyclely, e.g.: TRACK->FOLDER->FILE->ALBUM->TITLE->ARTIST->TRACK->...
When SCROLL is OFF, the LCD will display

System Setup

one of the ID3 TAG information, the default is TRACK, but user can adjust it to other ID3 TAG information by pressing **[DISP]** button on the remote control.

S-CTRL (iPod mode) : ON/OFF
Rotate the **[CONTROL]** knob to choose S-CTRL (Simple control) ON or OFF.
* Refer to P15.

DIMMER: ON/OFF
Rotate the **[CONTROL]** knob to choose DIMMER ON or OFF.
- **ON**: LCD dimmer is active when small light of vehicle is turned ON.
- **OFF**: LCD always maximum brightness regardless of the vehicle small light.

REAR/S-W
Rotate the **[CONTROL]** knob to choose REAR or S-WOOFER(SUB-WOOFER).

SW PHASE
Rotate the **[CONTROL]** knob to choose SUB-WOOFER phase REVERSE or NORMAL.

BEEP: ON/OFF
Rotate the **[CONTROL]** knob to choose button beep sound ON or OFF.

SOUND
Press the **[CONTROL]** knob to enter sound effect setting mode. First press shows current EQ. Rotate the **[CONTROL]** knob to choose BEAT EQ in this order:
OFF -> B-BOOST -> IMPACT -> EXCITE -> CUSTOM
To change CUSTOM setting, and press the **[CONTROL]** knob (center), then press **[CONTROL]** knob (right/left) to select EQ effects including: BASS-G -> BASS-F -> BASS-Q -> MID-G -> MID-F -> MID-Q -> TREBLE-G -> TREBLE-F, rotate the **[CONTROL]** knob to select a value.
BASS-G / MID-G / TREBLE-G: (-7)- (+7)
BASS-F: 50 / 100 / 200
BASS-Q : 0.7 / 1.0 / 1.4 / 2.0
MID-F: 500 / 1 K / 2 K
MID-Q: 0.7 / 1.0 / 1.4 / 2.0
TREBLE-F: 5 K / 10 K / 15 K
TREBLE-Q: 0.7 / 1.0 / 1.4 / 2.0

Then press the **[CONTROL]** knob (left / right) to select USER preset including:
BALANCE -> FADER -> M-B EX ->HPF(high pass filter) -> LPF(low pass filter) -> S-W VOL (Subwoofer Volume), rotate the **[CONTROL]** knob to select a value.
BALANCE:LEFT 1-7->CENTER->RIGHT 1-7
FADER:FRONT 1-7->CENTER->REAR 1-7
M-B EX: ON/OFF
HPF: THROUGH/60/90/120
LPF: THROUGH/60/90/120
SUBW VOL: (-6)-(+6)

Radio Operations

Select tuner as playing source

Press the **[CONTROL]** knob or **[SRC]** button on the remote control once or more to enter **RADIO** mode.

Select one radio band

Press and hold the **[CONTROL]** knob (up long press) on the panel or **[BAND/TOP]** button on the remote control to select one radio band among FM1, FM2, FM3, MW and LW.

Manual tuning

During manual tuning, the frequency will be changed in steps.
Press the **[CONTROL]** knob (left / right) on the panel or **[⏮ , ⏭]** buttons on the remote control to tune in a higher / lower station.

Auto tuning

Press and hold the **[CONTROL]** knob (left / right) on the panel or **[⏮ , ⏭]** buttons on the remote control to seek a higher / lower station.

Radio Operations

To stop searching, repeat the operation above or press other buttons having radio functions.

Note:

When a station is received, searching stops and the station is played.

Preset scan

Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.

1. Press the **[SCN/PS/AS]** button on the remote control .
2. When a desired station is tuned in, press the **[SCN/PS/AS]** button on the remote control again to continue receiving that station.

Note:

Be careful not to press and hold the **[SCN/PS/AS]** button, otherwise the auto store function is engaged and the unit starts storing stations.

Auto store

Only stations with sufficient signal strength will be detected and stored in the memory.
Press and hold the **[SCN/PS/AS]** button on the remote control to start automatic station search.
To stop auto store, press other buttons having radio functions.

Notes:

1. After auto store, the previous stored stations will be overwritten.
2. The unit has 5 bands, such as FM1, FM2, FM3, MW, LW. FM3 and MW, LW can store by AS function. Each bands can store 6 stations, FZ501E can store 30 stations in total.

Manual store

When one expected radio station has been detected, press and hold number button on the remote control 1-6 to store it in the memory.

Recall the stored stations

Press one numeric button among 1 to 6 on the remote control to select the corresponding stored station.
Press the **[CONTROL]** knob (up / down) on the panel to tune in a higher / lower station.

Local seeking

When LOCAL seeking is on, only those radio stations with strong radio signal could be received.
To open or close LOCAL function, set to system setup by long pressing **[CONTROL]** knob on the front panel, then press the **[CONTROL]** knob(left / right) repeatedly until **LO** or **DX** displays on the screen, rotate the **[CONTROL]** knob to select Local or Distant mode.

Note:

The number of radio stations that can be received will decrease after the local seeking mode is on.

Radio Data System Operations

Radio Data System

This unit has a built-in “Radio Data System” decoder system that supports broadcast stations transmitting “Radio Data System” data.
When using the “Radio Data System” function, always set the radio to FM mode.

AF function

The AF function switches to a different frequency on the same network in order to maintain optimum reception.
* The factory default setting is ON.

1. In ADJ mode(**RADIO** mode), press **[CONTROL]** knob (left / right) to select options.
2. Press the **[CONTROL]** knob (left / right) to select “**AF**”.

3. Rotate the **[CONTROL]** knob to select ON or OFF.
   • AF ON:
   "**AF**" indicator appears in the display and AF function turns on.
   • AF OFF:
   "**AF**" indicator disappears in the display and AF function turns off.

REG (Regional programme) function

When the REG function is ON, the optimum regional station can be received. When this function is OFF, if the regional station area switches as you drive, a regional station for that region is received.
* The factory default setting is ON.

Notes:
- This function is disabled when a national station such as BBC R2 is being received.
- The REG function ON/OFF setting is valid when the AF function is ON.

1. In ADJ mode, press **[CONTROL]** knob (left / right) to select options.
2. Press the **[CONTROL]** knob (left / right) to select "**REG**".
3. Rotate the **[CONTROL]** knob to select ON or OFF.

Manually tuning a regional station in the same network

1. This function is valid when the AF function is ON and the REG function is OFF.

Note:
- *This function can be used when a regional broadcast of the same network is received.*

TA (Traffic Announcement)

In the TA standby mode, when a traffic announcement broadcast starts, the traffic announcement broadcast is received as top priority regardless of the function mode so you can listen to it. Traffic programme (TP) automatic tuning is also available.

* This function can only be used when "**TP**" appears in the display. When "**TP**" appears, this means that the "Radio Data System" broadcast station being received has traffic announcement programmes.

Setting the TA standby mode

If you press the **[TA]** button on the remote control (in ADJ mode, press **[CONTROL]** knob (left / right) to select options) "**TA**" lights in the display and the unit is set into the TA standby mode until a traffic announcement is broadcast. When a traffic announcement broadcast starts, "**TRAF INF**" appears in the display. If you press the **[TA]** button on the remote control while a traffic announcement broadcast is being received, the traffic announcement broadcast reception is cancelled and the unit goes into the TA standby mode.

Cancelling the TA standby mode

As "**TA**" lights in the display, press the **[TA]** button on the remote control. The "**TA**" in the display goes off and the TA standby mode is cancelled.

PTY (Programme Type)

This function enables you to listen to a broadcast of the selected programme type even if the unit is on a function mode other than radio.

* Some countries do not yet have PTY broadcast.

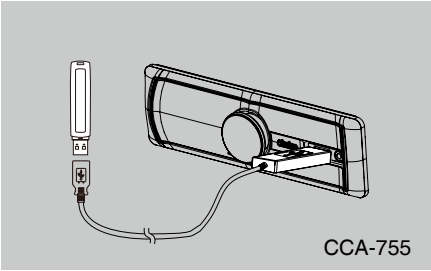
* In the TA standby mode, a TP station has priority over a PTY broadcast station.

Selecting PTY

In ADJ mode, press **[CONTROL]** knob (left / right) to select options, then rotate the **[CONTROL]** knob to select PTY type, press the **[CONTROL]** knob, the unit begin searching.

USB Operations

1. Move the cover of the USB slot to the left. Insert a USB cable (CCA-755) into the USB slot. Insert a USB device into the USB cable.
   When connecting a USB device, the unit will read the files automatically.
2. To remove the USB device, you should first select another source or turn off the power, in order to avoid damaging the USB device. Then take off the USB device. Move the cover to the right.



Pausing play

1. Press the **[▶/❚❚]** button on the remote control to pause play.
   "**PAUSE**" appears in the display.
2. To resume MP3/WMA play, press the **[▶/❚❚]** button on the remote control again.

Selecting a track

Track-up

1. Press the **[CONTROL]** knob (right) on the panel or **[▶▶❙]** button on the remote control to move to the beginning of the next track.
2. Each time you press the **[CONTROL]** knob (right) on the panel or **[▶▶❙]** button on the remote control, the track advances to the beginning of the next track.

Track-down

1. Press the **[CONTROL]** knob (left) on the panel or [❙◀◀] button on the remote control to move back to the beginning of the current track.
2. Press the **[CONTROL]** knob (left) on the panel or [❙◀◀] button on the remote control twice to move back to the beginning of the previous track.

Fast-forward/Fast-reverse

Fast-forward

Press and hold the **[CONTROL]** knob (right) on the panel or **[▶▶❙]** button on the remote control.

Fast-reverse

Press and hold the **[CONTROL]** knob (left) on the panel or [❙◀◀] button on the remote control.

* For MP3/WMA USB device, it takes some time until the start of searching and between tracks. In addition, some errors may occur in the play time.

Folder Select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder.

1. Press and hold **[CONTROL]** knob (up) on the panel.
   Press and hold **[CONTROL]** knob (up) on the panel to move the next folder.
2. To select a track, press the **[CONTROL]** knob (right / left) on the panel or [❙◀◀ , ▶▶❙] button on the remote control.

Search Function

1. Press the **[CONTROL]** knob (up) to enter FOLD SCH mode, and press **[CONTROL]** knob (center) to comfirm, then rotate **[CONTROL]** knob to select the folder list search mode.
2. Rotate the **[CONTROL]** knob to select a folder.
3. Press the **[CONTROL]** button (center) to enter the file list search mode. And then the track list appears in the display.
4. Turn the **[CONTROL]** knob to select a track.
5. Press the **[CONTROL]** knob (center) to play.

* When play back MP3 / WMA file, this function is performed in the current folder.

Top function

The top function resets the USB player to the first track of the USB device. Press and hold the **[CONTROL]** knob (down) to play the first track (track No. 1) on the USB device.

* In case of MP3/WMA, the first track of the current folder will be played.

USB Operations

Other various play functions

Scan play

This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.

Press the **[PS/AS/SCN]** button on the remote control to perform scan play.

Repeat play

This function allows you to play the current track repeatedly or play a track currently being played in the MP3/WMA folder repeatedly.

1. Press the **[AF/RPT]** button on the remote control once or more until "**TRK RPT**" appears on the display to perform repeat play, and "**RPT**" segment lights on.
2. For MP3/WMA files, press **[AF/RPT]** button on the remote control repeatedly until "**FOLD RPT**" appears on the display for folder repeat play.
3. Press **[AF/RPT]** button on the remote control repeatedly until "**RPT OFF**" appears on the display to cancel repeat playback, and "**RPT**" segment goes off.

Random play

This function allows you to play all tracks recorded on a USB device in a random order.

Press the **[PTY/RDM]** button on the remote control to perform random play.

iPod & iPhone Operations

Connect

Connect your iPod or iPhone to the USB slot via CCA-748 cable.
When connecting a device, the unit will read the files automatically. The track information display on the screen once playback start.

MENU

In the S-CTRL OFF mode, press the **[CONTROL]** knob (up), rotate the knob select "**MUSIC**" or "**VIDEO**".
Select "**MUSIC**", press the **[CONTROL]** knob, then rotate the **[CONTROL]** knob to show PLAY LISTS / ARTISTS / ALBUMS / GENRES / SONGS / COMPOSERS, then press the **[CONTROL]** knob to confirm.
Select "**VIDEO**", press the **[CONTROL]** knob, then rotate the **[CONTROL]** knob to show MOVIES / MUSIC VIDEO / TV SHOWS / VIDEO PODCASTS / RENTALS, then press the **[CONTROL]** knob to confirm.

NOTE:

- In case of VIDEO Playback, CCA-748 cable and monitor (sold separately) are required.
- VIDEO MENU item is different by the model of connected iPod and language setting.

Repeat play

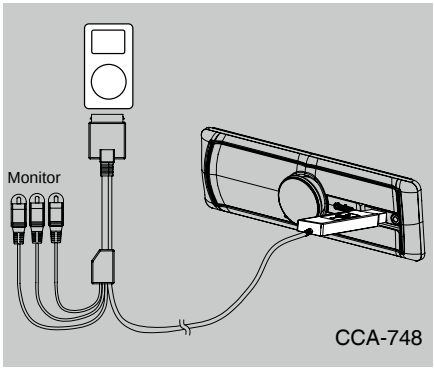
This function allows you to play the current track repeatedly or play all tracks in your iPod/ iPhone repeatedly.

1. Press the **[RPT]** button on the remote control once or more until "**RPT ON**" appears on the LCD to perform repeat play.
2. Press **[RPT]** button on the remote control repeatedly until "**RPT OFF**" appears on the LCD to cancel repeat playback.

Random play

This function allows you to play all tracks in a random order.

1. Press the **[RDM]** button on the remote control once or more until "**RDM ALBUM**" appears on the LCD for album random play.
2. Press the **[RDM]** button on the remote control once or more until "**RDM SONG**" appears on the LCD to perform random play.



3. Press the **[RDM]** button on the remote control once or more until "**RDM OFF**" appears on the LCD to cancel random playback.

Setting iPod simple control mode

Use this function if you wish to operate through your iPod connected to this unit via the USB cable.
* The factory default setting is " **OFF** ".

1. Press and hold **[CONTROL]** knob (center), and rotate the **[CONTROL]** knob choose **ADJUST**, then press the **[CONTROL]** knob (center) to enter system setup.
2. Press the **[CONTROL]** knob (left / right) to select " **S-CTRL**".
3. Rotate the **[CONTROL]** knob to select " **ON** " or " **OFF** " .
   - **ON**: Operations are made through your iPod.
   - **OFF**: Operations cannot be made through your iPod.

Notes:

- When performing iPod operations using simple control mode, make the operations slowly. If repetitive operations are performed too quickly, unforeseen errors may occur.
- When performing iPod operations using simple control mode, please do not operate the iPod and the unit at the same time, otherwise there may be unexpected event happened.

iPod & iPhone Operations

- Some iPod models do not support this function. Consult your nearest **Clarion** dealer or website to confirm which models do not support this function.

iPod menu alphabet search

This function searches the subfolders for desired alphabetical letters.

1. Press the **[CONTROL]** knob (up), and rotate **[CONTROL]** knob to select the iPod menu mode.
2. Rotate the **[CONTROL]** knob to switch between categories.
   MUSIC: PLAYLISTS, ARTISTS, ALBUMS, GENRES, SONGS, COMPOSERS
   VIDEO: MOVIES, MUSIC VIDEOS, TV SHOWS VIDEO PODCASTS, RENTALS
3. Press the **[CONTROL]** knob. (The contents of the category are displayed.)
4. Press and hold the **[CONTROL]** knob (down).
5. Rotate the **[CONTROL]** knob to select the desired letter to search.
6. Press the **[CONTROL]** knob to perform search.

AUX Operations

Press the **[CONTROL]** knob on the panel or **[SRC]** button on the remote control once or more to select "**AUX**".
AUX is just for audio content with 3.5mm Jack connector plugged into audio-in socket on the front panel on the right of USB slot.

AUX Input sensitivity setting

1. Press and hold the **[CONTROL]** knob .
2. Turn the **[CONTROL]** knob to select "**AUX SENS**".
3. If the output level of connected external audio player is "**HIGH**", rotate the **[CONTROL]** knob and choose "**LOW**". And if the output level is "**LOW**", choose "**HIGH**".

Bluetooth Operations

The Bluetooth allows you to utilize your car's built-in audio system for wireless mobile phone or music handsfree communication. Some Bluetooth mobile phones have the audio features, and some portable audio players support Bluetooth feature. This system can play audio data stored in a Bluetooth audio device. The car stereo with Bluetooth will be able to retrieve phonebook contacts, received call, dialed call, missed call, incoming calls, outgoing call and listen to music.

Note:

- Leaving it exposed to high temperatures or direct sunlight can cause distortion or discoloration which may result in a malfunction.
- This system will not operate or may operate improperly with some Bluetooth audio players.
- **Clarion** cannot guarantee the compatibility of all mobile phones together with unit.
- Audio playback will be set to the same volume level as set during telephone call. This might cause problems, if extreme volume level is set during telephone call.

Handsfree Operations

Pairing

1. Turn on Bluetooth function of your mobile phone.
2. Enter mobile phone's Bluetooth setup menu.
3. Search for new Bluetooth devices.
4. Select **FZ501** from the pairing list on the mobile phone.
5. Enter "**0000**" as the password (The password default setting is " **0000** ").
6. After pairing successfully, the unit will enter Bluetooth mode automatically, and "**BLUETOOTH CONNECTED**" will appear on the LCD.

Making a call

Operation from Bluetooth menu

Press the **[CONTROL]** knob to switch the source to "**BLUETOOTH**".

• Dial Number

Press and hold the **[CONTROL]** knob (center) choose **ADJUST**, then rotate the **[CONTROL]** knob select **CALL LST**.

1. Press the **[CONTROL]** knob.
2. Rotate the **[CONTROL]** knob on the front panel to switch: DIAL NUMBER / DIALLED CALL / MISSED CALL / RECEIVED CALL / MEMORY PHONEBOOK / SIM PHONEBOOK
3. Press the **[CONTROL]** knob to confirm the selection, "**WAITING**" will appear on the LCD.
4. Press the **[CONTROL]** knob to dial.
5. Press the **[CONTROL]** knob (right) to terminate call.

• Dialled/Missed/ Received Call History

You can search any Dialled/Missed/Received Call History.

1. Rotate the knob to select "**DIALED CALL**", "**MISSED CALL**" or "**RECEIVED CALL**".
2. Press the knob to enter the selected call history.
3. Rotate the **[CONTROL]** knob to scroll the contacts.
4. When the contact name or mobile phone No. is displayed, press the **[CONTROL]** knob (center) to call the mobile phone No. of that contact.
   * Press the **[CONTROL]** knob (right) to end the call.

• Call from Phonebook

User can search the contact name in the phonebook and make call.

1. Rotate the **[CONTROL]** knob to select "**SIM PHONE BOOK**"or "**MEMORY PHONE BOOK**" .
2. Press the **[CONTROL]** knob (center) to enter the selected phonebook.
3. Rotate the **[CONTROL]** knob to scroll the contacts.
4. When the contact name is displayed, press the **[CONTROL]** knob (center) to call the mobile phone No. of that contact.

* Press the **[CONTROL]** knob (right) to end the call.

• Answering a call

You can answer an incoming call by pressing the **[CONTROL]** knob.

* Press the **[CONTROL]** knob (right) to reject an incoming call.

Audio Streaming Operations

What is audio streaming?

Audio streaming is a technique for transferring audio data such that it can be processed as a steady and continuous stream. Users can stream music from their external audio player to their car stereo wirelessly and listen to the tracks through the car's speakers. Please consult your nearest **Clarion** dealer for more information on the product of wireless audio streaming transmitter offered.

⚠ CAUTION

Please avoid operating your connected mobile phone while audio streaming as this may cause noise or sound choppy on the song playback.

Audio streaming may or may not resume after telephone interrupt as this is dependent on mobile phone.

System will always return to Radio mode if audio streaming is disconnected.

Note:

Be sure to read the chapter "Pairing" before proceeding.

Play / Pause a track

1. Push the **[CONTROL]** knob (down) to pause audio playback.
2. To resume audio playback, push the **[CONTROL]** knob (down) again.

Selecting a track

Track-up

1. Press the **[CONTROL]** knob (right) to move to the beginning of the next track.
2. Each time the **[CONTROL]** knob (right) is pressed, playback proceeds to another track in the advancing direction.

Track-down

1. Press the **[CONTROL]** knob (left) to move to the beginning of the previous track.
2. Each time the **[CONTROL]** knob (left) is pressed, playback proceeds to previous track in the reverse direction.

Note:

Playing order will depend on Bluetooth audio player. When **[CONTROL]** knob (left) is pressed, some A2DP devices will restart the current track depends on the duration of playback.

During music streaming playback, "**A2DP**" will be shown on the display. Information about tracks (e.g. the elapsed playtime, song title, etc.) cannot be displayed on this unit. When A2DP device is disconnected, "**BT DISCONNECT**" will be shown on the display and return to previously selected audio source. Some Bluetooth audio players may not have play / pause synchronized with this unit. Please make sure both device and main unit are in the same play / pause status in **BT MUSIC** mode.

5. TROUBLE SHOOTING

GENERAL

Problem	Cause	Measure
Unit can not power on.	Unit fuse blown.	Replace with new fuse of correct rating.
	Car battery fuse blown.	Replace with new fuse of correct rating.
Unit can not power on. Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power. Press the **[RESET]** button with a thin rod. Note: When the **[RESET]** button is pressed, turn off the ACC power.* * When the **[RESET]** button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.
No/low audio output.	Improper audio output connection.	Check wiring and correct.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Heavily biased volume balance.	Adjust the channel balance to center position.
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections.
Poor sound quality or distortion.	Speaker power rating does not match unit.	Replace speakers.
	Wrong connections.	Check wiring and correct.
	Speaker is shorted.	Check wiring and correct.
Unit resets itself when engine is off.	Incorrect connection between ACC and Battery.	Check wiring and correct.

USB Devices

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted with wrong direction.	Reversing the connection direction of the USB device, try it again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display "**No File**" shown.	No MP3/WMA file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.

Bluetooth

Problem	Cause	Measure
Cannot pair the Bluetooth enabled device with the car audio system.	The device does not support the profiles required for the system.	Use another device to connect.
	The Bluetooth function of the device is not enabled.	Refer to the user manual of the device for how to enable the function.
The audio quality is poor after connection with a Bluetooth-enabled device.	The internal microphone gain is not set correctly.	Adjust the gain of the internal microphone in System Setup.
	The external microphone is not set correctly nor properly positioned.	Adjust the gain and position of the external microphone. For example, stick the microphone onto the dashboard so it is close to the driver.

6. ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to solve the problem.

Display	Cause	Measure
ERROR 2	Do not support iPod & iPhone.	Change another device. * The head unit will return to **RADIO** mode.

If an error display other than the ones described above appears, press the **[RESET]** button. If the problem persists, turn off the power and consult your store of purchase.

* When the **[RESET]** button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.

7. SPECIFICATIONS

FM Tuner

Frequency range: 87.5-108.0MHz
Usable sensitivity: 8dBμ
Frequency response: 30Hz-15kHz
Stereo separation: 30dB(1kHz)
Signal/noise ratio: >55dB

MW Tuner

Frequency range: 531-1602kHz
Usable sensitivity (S/N=20dB): 30dBμ

LW Tuner

Frequency range: 153-279kHz
Usable sensitivity (S/N=20dB): 30dBμ

MP3/WMA mode

MP3 sampling rate: 8 kHz to 48 kHz
MP3 bit rate: 8 kbps to 320 kbps / VBR
WMA bit rate: 8 kbps to 320 kbps
Logical format: ISO9660 level 1,2
Joliet or Romeo file system

USB

Specification: USB 1.0/2.0
Playable audio format:
MP3(.mp3): MPEG 1/2/Audio Layer-3
WMA(.wma): Ver 7/8/9.1/9.2

Bluetooth

Specification: Bluetooth Ver. 2.0+EDR
Profile: HFP (Hands-free Profile)
PBAP(Phone Book Access Profile)
A2DP (Advanced Audio Distribution Profile)
AVRCP (AV Remote Control Profile)
Send/Receive Sensitivity: Class 2

Audio Amplifier

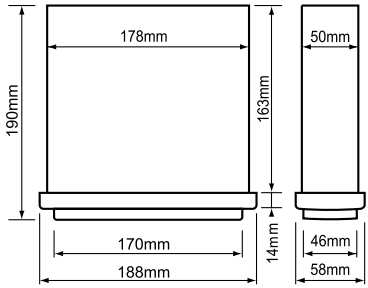
Maximum power output:
200W (50W x 4)
Speaker impedance: 4Ω (4 to 8Ω allowable)

Input

Audio input sensitivity:
High: 320mV (at 1V output)
Mid: 650mV (at 1V output)
Low: 1.3V (at 1V output)
(input impedance 10 kΩ or greater)
Aux-in level: ≤2V

General

Power supply voltage:
14.4VDC (10.8 to 15.6V allowable),
negative ground
Fuse: 15A
Dimensions of the Main Unit:
188mm Width × 58mm Height × 190mm Depth
Weight of the Main Unit: 0.88kg
Dimensions of the Remote Control unit:
52mm Width × 7.5mm Height × 85.5mm Depth
Weight of the Remote Control Unit:
24g (including battery)



Notes:

- Specifications and design are subject to change without notice for further improvement.

8. INSTALLATION / WIRE CONNECTION GUIDE

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3) General Cautions 22
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7) Wiring and Connections 26
8) Connecting the accessories 27

1) Before Starting

1. This set is exclusively for use in cars with a negative ground 12 V power supply.
2. Read these instructions carefully.
3. Be sure to disconnect the battery “terminal” before starting. This is to prevent short circuits during installation. (Figure 1)

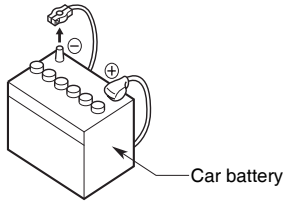


Figure 1

2) Package Contents

Source unit 1
Trim ring 1
Mounting bracket 1
Screws M5x6 mm 4
L-key 2
Rubber cap 1
Special screw(M4x42) 1
Wire connector 1
Owner’s manual 1
Warranty card 1
Remote control (with battery) 1

3) General Cautions

1. Do not open the case. There are no user serviceable parts inside. If you drop anything into the unit during installation, consult your dealer or an authorized **Clarion** service center.
2. Use a soft, dry cloth to clean the case. Never use a rough cloth, thinner, benzine, or alcohol etc. For tough dirt, apply a little cold or warm water to a soft cloth and wipe off the dirt gently.

4) Cautions on Installation

1. Prepare all articles necessary for installing the source unit before starting.
2. Install the unit within 30° of the horizontal plane. (Figure 2)
3. If you have to do any work on the car body, such as drilling holes, consult your car dealer beforehand.
4. Use the enclosed screws for installation.
   Using other screws can cause damage. (Figure 3)

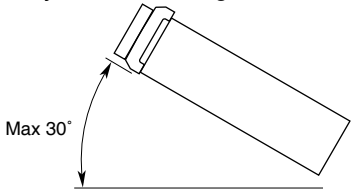


Figure 2

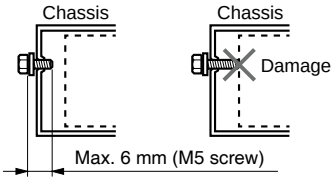


Figure 3

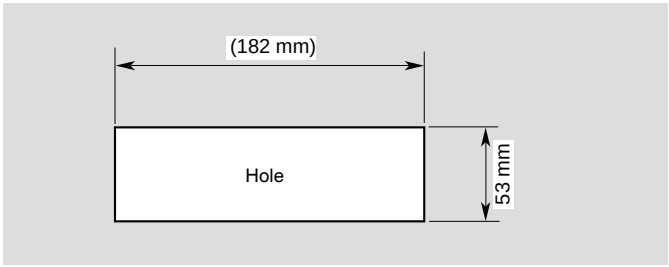
5) Installing the Source Unit

1. Place the mounting bracket into the instrument panel, use a screwdriver to bend each stopper of the mounting bracket inward, then secure the stopper.
2. Wire as shown in Section 7) .
3. Insert the source unit into the mounting bracket until it locks.
4. Take care of the top and bottom of the trim ring and mount it so that all the hooks are locked.

Notes:

1. Some car models require special mounting kits for proper installation. Consult your Clarion dealer for details.
2. Fasten the front stopper securely to prevent the source unit from coming loose.

- **Console opening dimensions**



Notes of installation

1. Before installation, please make sure proper connections are conducted and the unit operates normally. Improper connection may result in damage to the unit.
2. Use only accessories designed and manufactured for this unit and other unauthorized accessories may result in damage to the unit.
3. Before installation, please fasten all power cables.
4. DO NOT install the unit in the place where close to hot area to prevent damage to electrical components such as the laser head.
5. Install the unit horizontally. Installing the unit more than 30 degree vertically may result in worse performance.
6. To prevent electric spark, connect the positive pole first and then the negative pole.
7. DO NOT block the cooling fan exit to ensure sufficient heating dissipation of this unit, or it may result in damage to this unit.

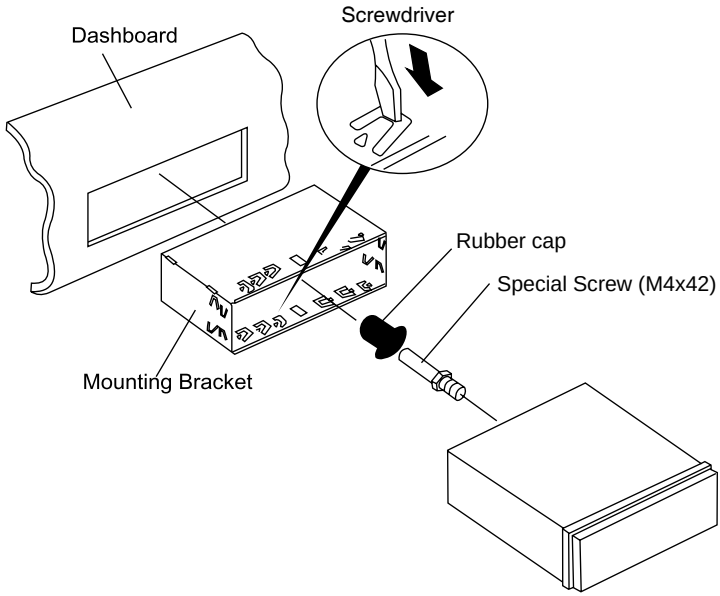
Unit installation

Method A

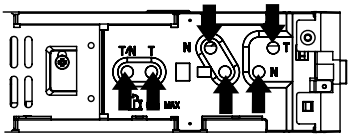
1. Insert mounting bracket into dash board, choose appropriate mounting tab according to the gap width, bending the mounting tab outwards with a screwdriver to fix the mounting bracket in place.

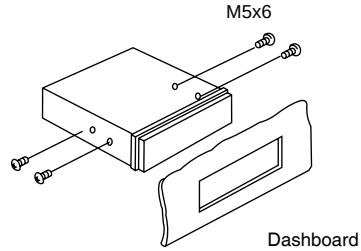
2. Screw in 1 piece of M4×42 to the hole of the unit back and put on a rubber cap over the screw. (see picture below)

3. Slide the unit into the bracket until you hear a click sound.



Method B

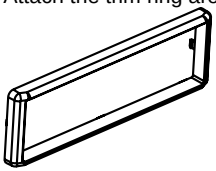




1. Insert this unit directly to the opening of the dashboard.
2. Place M5×6 cylindrical screw through the holes of the mounting frame located inside the opening to holes of the unit and fasten the screws to left & right.

Trim ring installation

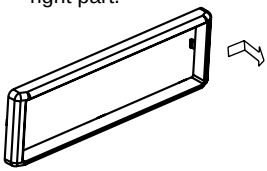
Attach the trim ring around the front panel.



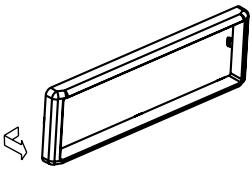
6) Removing the Source Unit

Disassemble trim ring

1. Push the trim ring to right and pull out the right part.

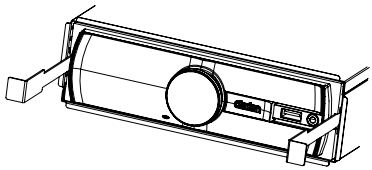


2. Push the trim ring to left and pull out the left part.

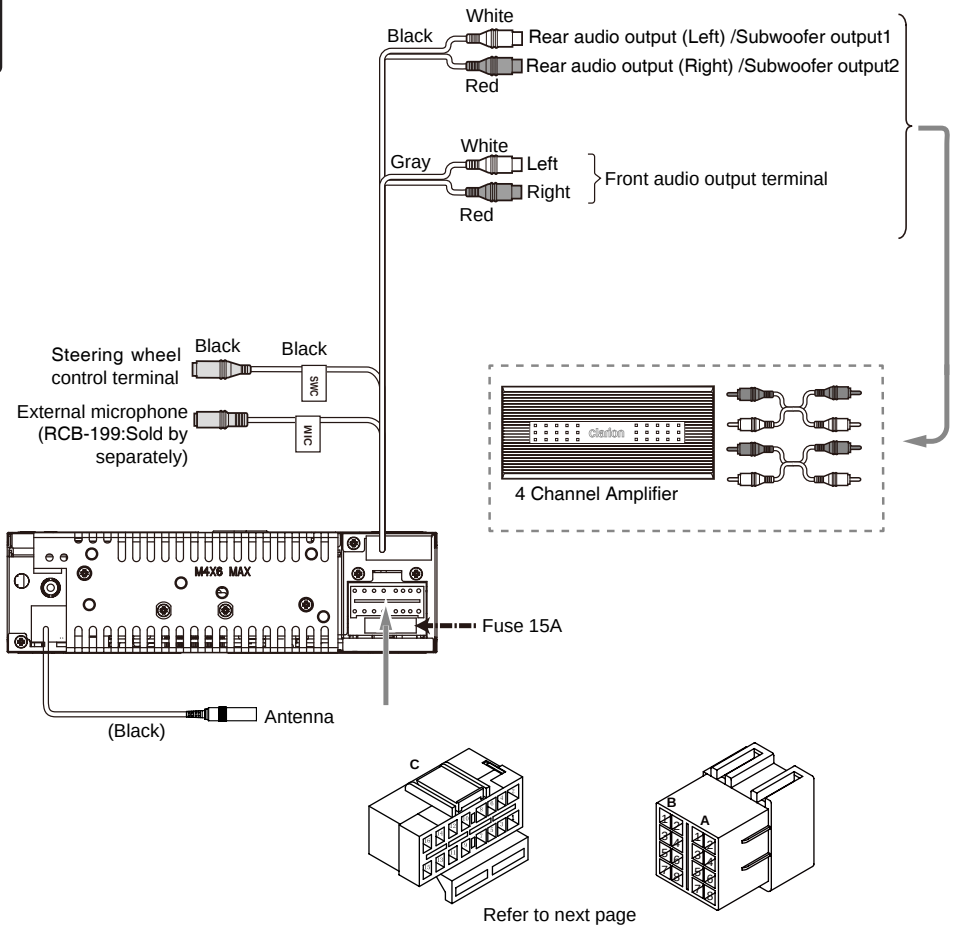


Disassemble the unit

1. Switch off the power.
2. Remove the trim ring.
3. Insert the removal keys straight back until they lock,then pull the unit out.
4. Disconnect all the wires.



7) Wiring and Connections



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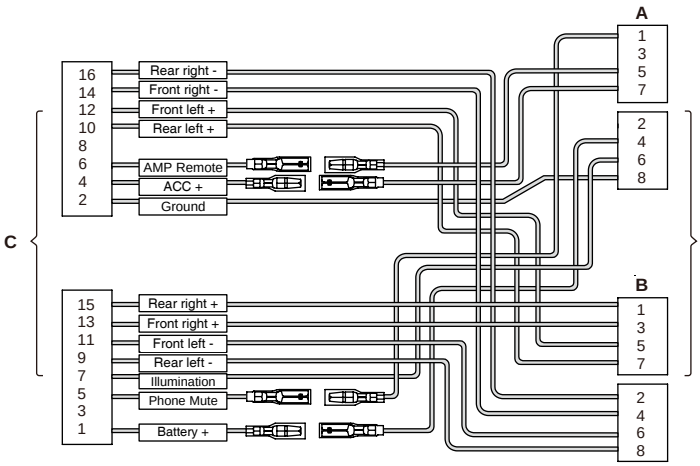
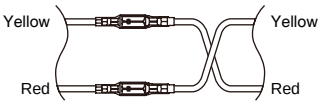


Location	Function	
	Connector A	Connector B
1		Rear right (+) / Purple
2		Rear right (-) / Purple with black stripe
3		Front right (+) / Grey
4	Battery 12V(+) / Yellow	Front right (-) / Grey with black stripe
5	Remote On / Blue with white stripe	Front left (+) / White
6	Illumination / Orange with white stripe	Front left (-) / White with black stripe
7	ACC+ / Red	Rear left (+) / Green
8	Ground / Black	Rear left (-) / Green with black stripe



For VW and Audi: Change wiring like above.

8) Connecting the accessories

- **Connecting to the external amplifier**
  External amplifiers can be connected to the 4 channel RCA output connections. Ensure that the connectors are not grounded or shorted to prevent damage to the unit.

CE 2200

English:

Declaration of conformity

We **Clarion** declares that this model FZ501E is following the provision of Directive 1999/5/EC with the essential requirements and the other relevant regulations.

Français:

Déclaration de conformité

Nous, **Clarion**, déclarons que ce modèle FZ501E est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Deutsch:

Konformitätserklärung

Wir, **Clarion**, erklären, dass dieses Modell FZ501E den Bestimmungen der Richtlinie 1999/5/EG im Hinblick auf die grundlegenden Anforderungen und andere relevante Bestimmungen entspricht.

Italiano:

Dichiarazione di conformità

Clarion dichiara che il presente modello FZ501E è conforme ai requisiti essenziali e alle altre disposizioni pertinenti stabiliti dalla direttiva 1999/5/CE.

Nederlands:

Conformiteitsverklaring

Clarion verklaart dat het model FZ501E in overeenstemming is met de essentiële eisen en andere relevante voorschriften van de bepalingen van Richtlijn 1999/5/EC.

Español:

Declaración de conformidad

Clarion declara que este modelo FZ501E cumple con los requisitos esenciales y otras disposiciones aplicables descritos en la Directiva 1999/5/CE.

Svenska:

Intyg om överensstämmelse

Härmed intygar **Clarion** att denna modell FZ501E uppfyller kraven i direktiv 1999/5/EG gällande väsentliga egenskaper och övriga relevanta bestämmelser.

Polski:

Deklaracja zgodności

Firma **Clarion** niniejszym oświadcza, że model FZ501E jest zgodny z istotnymi wymogami oraz innymi odpowiednimi postanowieniami Dyrektywy 1999/5/WE

Ελληνικά:

Δήλωση συμμόρφωσης

Εμείς στην **Clarion** δηλώνουμε ότι αυτό το μοντέλο FZ501E τηρεί τις διατάξεις της Οδηγίας 1999/5/ΕΚ σχετικά με τις ουσιώδεις απαιτήσεις και τους άλλους σχετικούς κανονισμούς.

Italy
Dichiarazione di conformità:
Io mandatario nell' UE: **Clarion** Europe S.A.S.
Z.I. du Pré à Varois, Route de Pompey, 54670 Custines, Francia Dichiaro che il prodotto FZ501E è conforme al DM 28-08-1995 ottemperando alle prescrizioni dei DM 25-06-1985 e DM 27-08-1987.
Ministerial authorization FI DM 27-08-1987 nº of protocol: 0075783 date 09/11/2010

Clarion Europe S.A.S.
Z.I. du Pré à Varois, Route de Pompey, 54670 Custines, FRANCE
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